

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	58	(steam with activat\$3) same (argon and nitrogen)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/28 12:29
L3	402	(coal with binder with pitch) same (catalyst electrode anode cathode fuel adj cell)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/28 14:50
L4	19	(coal with binder with pitch) same (catalyst electrode anode cathode) and (fuel adj cell)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/28 15:02
L5	5	(coal with binder with pitch) same (catalyst electrode anode cathode) and (fuel adj cell) and (activat\$3 with carbon)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/28 15:03
S1	1	"20060263674".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 15:26
S2	33200	oxygen adj reduction adj reaction orr ((oxygen "o.sub.2") near2 reduc\$4) and catalyst	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/26 08:11
S3	240471	((("n.sub.2" nitrogen) near4 (c carbon)) (nitrogen adj1 containing adj carbon) (nitrogen adj containing adj carbon) ((nitrogen n) adj doped adj (c carbon)) ((nitrogen n) adj1 doped adj1 (c carbon))	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/28 14:45
S4	17085	(electron adj spin adj resonance ESR) (spin adj density) (shake adj1 up shake adj up) (binding adj energy)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/26 11:20
S5	6113	steam with activat\$3	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/26 08:26
S6	1	S2 and S3 and S4 and S5	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 15:28
S7	4113	S2 and S3	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/26 07:47
S8	63	S7 and S5	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 15:29
S9	14398	429/12-46.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 15:29

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S10	58078	"502".clas.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 15:42
S11	22	S8 and (S9 S10)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 15:30
S12	916	S2 and S3 and (S9 S10)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 15:53
S13	966	502/101.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 15:51
S14	428	502/180.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 15:43
S15	87	S12 and (S13 S14)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 15:52
S16	2422	502/101.ccls. 502/101.ccls. 502/123-124.ccls. 502/200.ccls. 502/509.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/26 07:48
S17	80	S12 and S16	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 15:52
S18	295	S12 and (S9 S16)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 15:53
S19	1171	S3 and S5	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 16:03
S20	27	S19 and (S9 S16)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 16:15
S21	126258	(melamine hydrazine)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 16:15
S22	30276	S3 and S21	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 16:16
S23	125	S22 and S5	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 16:16
S24	1	S23 and (S9 S16)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 16:15

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S25	162	S22 and (S9 S16)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 16:16
S26	240471	((("n.sub.2" nitrogen) near4 (c carbon)) (nitrogen adj1 containing adj carbon) (nitrogen adj containing adj carbon) ((nitrogen n) adj doped adj (c carbon)) ((nitrogen n) adj1 doped adj1 (c carbon))	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/26 07:54
S27	17085	(electron adj spin adj resonance ESR) (spin adj density) (shake adj1 up shake adj up) (binding adj energy)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/26 07:55
S28	2521	S26 and S27	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/26 07:47
S29	14398	429/12-46.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/26 11:05
S30	2422	502/101.ccls. 502/101.ccls. 502/123-124.ccls. 502/200.ccls. 502/509.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/26 07:48
S31	36	S28 and (S30 S29)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/26 07:52
S32	32174	((("n.sub.2" nitrogen) near4 (c carbon)) (nitrogen adj1 containing adj carbon) (nitrogen adj containing adj carbon) ((nitrogen n) adj doped adj (c carbon)) ((nitrogen n) adj1 doped adj1 (c carbon))	EPO; JPO; DERWENT	OR	ON	2007/03/26 10:51
S33	2952	(electron adj spin adj resonance ESR) (spin adj density) (shake adj1 up shake adj up) (binding adj energy)	EPO; JPO; DERWENT	OR	ON	2007/03/26 08:09
S34	16	S32 and S33	EPO; JPO; DERWENT	OR	ON	2007/03/26 08:09
S35	2745	oxygen adj reduction adj reaction orr ((oxygen "o.sub.2") near2 reduc\$4) and catalyst	EPO; JPO; DERWENT	OR	ON	2007/03/26 08:11
S36	52	S32 and S35	EPO; JPO; DERWENT	OR	ON	2007/03/26 08:12
S37	2434	steam with activat\$3	EPO; JPO; DERWENT	OR	ON	2007/03/26 08:26
S38	52	S32 and S37	EPO; JPO; DERWENT	OR	ON	2007/03/26 08:27
S39	50	S38 not (S34 S36)	EPO; JPO; DERWENT	OR	ON	2007/03/26 08:27

## EAST Search History

S40	11265567	(carbon c carbonaceous pitch coal)	EPO; JPO; DERWENT	OR	ON	2007/03/26 10:52
S41	32174	((("n.sub.2" nitrogen) near4 (c carbon)) (nitrogen adj1 containing adj carbon) (nitrogen adj containing adj carbon) ((nitrogen n) adj doped adj (c carbon)) ((nitrogen n) adj1 doped adj1 (c carbon)))	EPO; JPO; DERWENT	OR	ON	2007/03/26 10:52
S42	32174	S41 and S40	EPO; JPO; DERWENT	OR	ON	2007/03/26 10:52
S43	716	S42 and steam	EPO; JPO; DERWENT	OR	ON	2007/03/26 10:53
S44	1297	S42 and activat\$3	EPO; JPO; DERWENT	OR	ON	2007/03/26 11:00
S45	716	S43 and (nitrogen nitrid\$5 nitrogeniz\$5)	EPO; JPO; DERWENT	OR	ON	2007/03/26 11:00
S46	21	S43 and (nitrid\$5 nitrogeniz\$5)	EPO; JPO; DERWENT	OR	ON	2007/03/26 11:00
S47	65	S44 and (nitrid\$5 nitrogeniz\$5)	EPO; JPO; DERWENT	OR	ON	2007/03/26 11:01
S48	240471	((("n.sub.2" nitrogen) near4 (c carbon)) (nitrogen adj1 containing adj carbon) (nitrogen adj containing adj carbon) ((nitrogen n) adj doped adj (c carbon)) ((nitrogen n) adj1 doped adj1 (c carbon)))	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/26 11:12
S49	240471	S48	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/26 11:03
S50	29797	(electron with excit\$7)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/26 11:15
S51	3144	S48 and S50	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/26 11:10
S52	221568	(nitrid\$3 nitrogeniz\$5)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/26 11:09
S53	1071	S51 and S52	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/26 11:08
S54	14398	429/12-46.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/26 11:05
S55	2422	502/101.ccls. 502/101.ccls. 502/123-124.ccls. 502/200.ccls. 502/509.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/26 11:05

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S56	16170	S54 S55	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/26 11:05
S57	3	S53 and S56	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/26 11:05
S58	83	S51 and (nitriding nitrogeniz\$5)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/26 11:09
S59	134112	(nitrogen near4 carbon) (nitrogen adj1 containing adj carbon) (nitrogen adj containing adj carbon) ((nitrogen n) adj doped adj (c carbon)) ((nitrogen n) adj1 doped adj1 (c carbon))	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/27 16:22
S60	1942	S59 and S50	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/26 11:14
S61	19501	(electron near4 excit\$7)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/26 11:22
S62	1331	S59 and S61	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/26 11:19
S63	306	S62 and catalyst	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/26 11:15
S64	17085	(electron adj spin adj resonance ESR) (spin adj density) (shake adj1 up shake adj up) (binding adj energy)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/26 11:20
S65	117	S62 and S64	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/26 11:20
S66	24432	(nitrogen near4 carbon) (nitrogen adj1 containing adj carbon) (nitrogen adj containing adj carbon) ((nitrogen n) adj doped adj (c carbon)) ((nitrogen n) adj1 doped adj1 (c carbon))	EPO; JPO; DERWENT	OR	ON	2007/03/26 11:22
S67	4016	(electron near4 excit\$7)	EPO; JPO; DERWENT	OR	ON	2007/03/26 11:22
S68	9	S66 and S67	EPO; JPO; DERWENT	OR	ON	2007/03/26 11:22
S69	9061	(electron and excit\$7)	EPO; JPO; DERWENT	OR	ON	2007/03/26 11:23
S71	16	S66 and S69	EPO; JPO; DERWENT	OR	ON	2007/03/26 11:23

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S72	134112	(nitrogen near4 carbon) (nitrogen adj1 containing adj carbon) (nitrogen adj containing adj carbon) ((nitrogen n) adj doped adj (c carbon)) ((nitrogen n) adj1 doped adj1 (c carbon))	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/26 15:44
S73	134112	S72	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/26 15:44
S74	336	(melamine hydrazine) same (vinylpyridine VPR)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/27 08:08
S75	135	(melamine hydrazine) with (vinylpyridine VPR)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/27 08:13
S76	327	(polyacrylonitrile PAN) with (vinylpyridine VPR)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/27 08:23
S77	3	S76 and "429".clas.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/27 08:14
S78	2	S76 and "502".clas.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/27 08:14
S79	879	(polyacrylonitrile PAN nylon gelatin collagen) with (vinylpyridine VPR)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/27 08:23
S80	936	(polyacrylonitrile PAN nylon gelatin collagen melamine) with (vinylpyridine VPR)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/27 08:26
S81	290	S80 and catalyst	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/27 08:27
S82	3	S81 and fuel adj cell	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/27 08:25
S83	6	S80 and fuel adj cell	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/27 08:26
S84	3	S83 not S82	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/27 08:26
S85	77	S80 and (nitrogen near4 carbon)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/27 08:48
S86	4939	activated adj carbon same (coal binder pitch)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/27 08:49

## EAST Search History

S87	1082	activated adj carbon same (pitch)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/27 08:53
S88	5637	(carbon with catalyst) same ((ar argon) and (nitrogen n "n.sub.2"))	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/27 08:54
S89	76	(carbon with catalyst) same ((ar argon) and (nitrogen n "n.sub.2")) same (steam with activ\$5)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/27 08:55
S90	351	carbon and ((ar argon) and (nitrogen n "n.sub.2")) same (steam with activ\$5)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/27 08:55
S91	685	502/174.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/27 16:22
S92	204	423/364.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/27 16:22
S93	134183	(nitrogen near4 carbon) (nitrogen adj1 containing adj carbon) (nitrogen adj containing adj carbon) ((nitrogen n) adj doped adj (c carbon)) ((nitrogen n) adj1 doped adj1 (c carbon))	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/27 16:22
S94	134183	S93	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/27 16:23
S95	107	(S91 S92) and S93	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/27 16:26
S96	37	(n1s\$ pyridinic) same ((bind\$3 bond) near2 energy)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/28 12:28